

**CLAIMS**

5 I claim:

1. A set of profiled sanding pads for use in special automotive and other bodywork applications, the set of profiled sanding pads comprising:

10 a plurality of elongate members, each of said elongate members having a distinctive configuration;

said elongate members including main member, said main member having a sanding side and a mounting side;

15 said sanding side being for contacting an object to be sanded, said sanding side of said elongate members including an elastic material, said elastic material being fixedly coupled to said sanding side of said elongate members, said elastic material being for selectively coupling sandpaper to such that said elastic material provides a buffer between said sanding side of said elongate  
20 members and the object being sanded; and

said mounting side of said elongate members including a mounting means for mounting said elongate members to an existing sander, said mounting side being for coupling to an existing sander such that a plurality of objects having unique forms are thereby  
25 sandable.

2. The set of profiled sanding pads as set forth in claim 1, further comprising:

30 said main member of a first of said elongate members having a v-shaped cross section, said cross section being perpendicular to a longitudinal axis of said first of said elongate members;

said first of said elongate members including a plurality of mounting plates, said mounting plates being fixedly coupled to said mounting side of said first of said elongate members such that said cross section of said first of said elongate members and said  
5 mounting plates form an isosceles triangle;

said mounting plates including said mounting means for mounting to the existing sander; and

said sanding side of said first of said elongate members being a side opposite of said mounting side.

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3. The set of profiled sanding pads as set forth in claim 1, further comprising:

said main member of a second of said elongate members having an arcuate cross section, said cross section being  
15 perpendicular to a longitudinal axis of said second of said elongate members;

said second of said elongate members including a plurality of mounting plates, said mounting plates being fixedly coupled to said mounting side of said second of said elongate members such that  
20 said cross section of said second of said elongate members and said mounting plates being arcuate;

said mounting plates including said mounting means for mounting to the existing sander; and

said sanding side of said second member of said elongate  
25 members being a side opposite of said mounting side.

4. The set of profiled sanding pads as set forth in claim 3, further comprising:

said main member of a third of said elongate members  
30 including a medial section, a first side section, and a second side

section, said first and second side sections being on opposing sides of said medial section, said sections angling away from said medial section in opposite directions;

said medial section of said main member including a top surface, said top surface including said mounting means for mounting to the existing sander; and

said sanding side of said third member being a side opposite said top surface.

10 5. The set of profiled sanding pads as set forth in claim 1, further comprising:

said main member of a fourth of said elongate members including a medial section, a first side section, and a second side section, said first and second side sections being on opposing sides of said medial section, said side sections angling away from said medial section in a similar direction such that the obtuse angles between said medial section and said side sections are substantially equal;

said side sections of said main member having a width being substantially equal, said medial section of said main member having a width being substantially greater than said width of said side sections of said main member;

said fourth of said elongate members including a plurality of mounting plates, said mounting plates being fixedly coupled to said mounting side of said fourth of said elongate members such that said cross section of said fourth of said elongate members and said mounting plates form a trapezoid;

said mounting plates including said mounting means for mounting to the existing sander; and

said sanding side of said fourth member being a side opposite of said mounting side.

5 6. The set of profiled sanding pads as set forth in claim 1, further comprising:

said main member of a fifth of said elongate members including a medial section, a first side section, and a second side section, said first and second side sections being on opposing sides of said medial section, said side sections angling away from said medial section in a similar direction such that the obtuse angles between said medial section and said side sections are substantially equal;

said side sections and said medial section of said main member having a width being substantially equal;

15 said fifth of said elongate members including a plurality of mounting plates, said mounting plates being fixedly coupled to said mounting side of said fifth of said elongate members such that said cross section of said fifth of said elongate members and said mounting plates form a trapezoid;

20 said mounting plates including said mounting means for mounting to the existing sander; and

said sanding side of said fifth member being a side opposite of said mounting side.

25 7. The set of profiled sanding pads as set forth in claim 1, further comprising:

said main member of a sixth of said elongate members having a u-shaped cross section, said cross section being perpendicular to a longitudinal axis of said sixth of said elongate members;

said main member having a rear section, a top section, and a front section, said sections having approximately the same width;

said rear section including said mounting means, said mounting means protruding outwardly from a u-shaped channel for  
5 being selectively couplable to the existing sander; and

said sanding surface of said main member being located on an inside surface of said u-shaped channel such that said inside surface faces a rear surface of said front section, said rear surface being opposite said mounting means.

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8. A set of profiled sanding pads for use in special automotive and other bodywork applications, the set of profiled sanding pads comprising:

a plurality of elongate members, each of said elongate  
15 members having a distinctive configuration;

said elongate members including main member, said main member having a sanding side and a mounting side;

said sanding side being for contacting an object to be sanded, said sanding side of said elongate members including an elastic  
20 material, said elastic material being fixedly coupled to said sanding side of said elongate members, said elastic material being for selectively coupling sandpaper to such that said elastic material provides a buffer between said sanding side of said elongate members and the object being sanded;

said mounting side of said elongate members including said  
25 mounting means for mounting said elongate members to an existing sander, said mounting side being for coupling to the existing sander such that a plurality of objects having unique forms are thereby sandable;

said main member of a first of said elongate members having a v-shaped cross section, said cross section being perpendicular to a longitudinal axis of said first of said elongate members;

5       said first of said elongate members including a plurality of mounting plates, said mounting plates being fixedly coupled to said mounting side of said first of said elongate members such that said cross section of said first of said elongate members and said mounting plates form an isosceles triangle;

10       said mounting plates including said mounting means for mounting to the existing sander;

      said sanding side of said first of said elongate members being a side opposite of said mounting side;

15       said main member of a second of said elongate members having an arcuate cross section, said cross section being perpendicular to a longitudinal axis of said second of said elongate members;

20       said second of said elongate members including a plurality of mounting plates, said mounting plates being fixedly coupled to said mounting side of said second of said elongate members such that said cross section of said second of said elongate members and said mounting plates being arcuate;

      said mounting plates including said mounting means for mounting to the existing sander;

25       said sanding side of said second member of said elongate members being a side opposite of said mounting side;

30       said main member of a third of said elongate members including a medial section, a first side section, and a second side section, said first and second side sections being on opposing sides of said medial section, said sections angling away from said medial section in opposite directions;

said medial section of said main member including a top surface, said top surface including said mounting means for mounting to the existing sander; and

5 said sanding side of said third member being a side opposite said top surface;

said main member of a fourth of said elongate members including a medial section, a first side section, and a second side section, said first and second side sections being on opposing sides of said medial section, said side sections angling away from said  
10 medial section in a similar direction such that the obtuse angles between said medial section and said side sections are substantially equal;

said side sections of said main member having a width being substantially equal, said medial section of said main member having  
15 a width being substantially greater than said side sections of said main member;

said fourth of said elongate members including a plurality of mounting plates, said mounting plates being fixedly coupled to said mounting side of said fourth of said elongate members such that  
20 said cross section of said fourth of said elongate members and said mounting plates form a trapezoid;

said mounting plates including said mounting means for mounting to the existing sander;

25 said sanding side of said fourth member being a side opposite of said mounting side;

said main member of a fifth of said elongate members including a medial section, a first side section, and a second side section, said first and second side sections being on opposing sides of said medial section, said side sections angling away from said  
30 medial section in a similar direction such that the obtuse angles

between said medial section and said side sections are substantially equal;

said side sections and said medial section of said main member having a width being substantially equal;

5        said fifth of said elongate members including a plurality of mounting plates, said mounting plates being fixedly coupled to said mounting side of said fifth of said elongate members such that said cross section of said fifth of said elongate members and said mounting plates form a trapezoid;

10        said mounting plates including said mounting means for mounting to the existing sander;

said sanding side of said fifth member being a side opposite of said mounting side;

15        said main member of a sixth of said elongate members having a u-shaped cross section, said cross section being perpendicular to a longitudinal axis of said sixth of said elongate members;

said main member having a rear section, a top section, and a front section, said sections having approximately the same width;

20        said main member having a rear section, a top section, and a front section, said sections having approximately the same width;

said rear section including said mounting means, said mounting means protruding outwardly from a u-shaped channel for being selectively couplable to the existing sander; and

25        said sanding surface of said main member being located on an inside surface of said u-shaped channel such that said inside surface faces a rear surface of said front section, said rear surface being opposite said mounting means.

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